EXAMINATION, DIAGNOSIS AND TREATMENT PLANNING

INTRODUCTION

× Examination

 Is an investigation for the purpose of making a diagnosis.

× Diagnosis

Is the determination of the nature of the disease.

× Treatment planning

 Is the general diagnostic findings that influence overall prosthetic treatment.

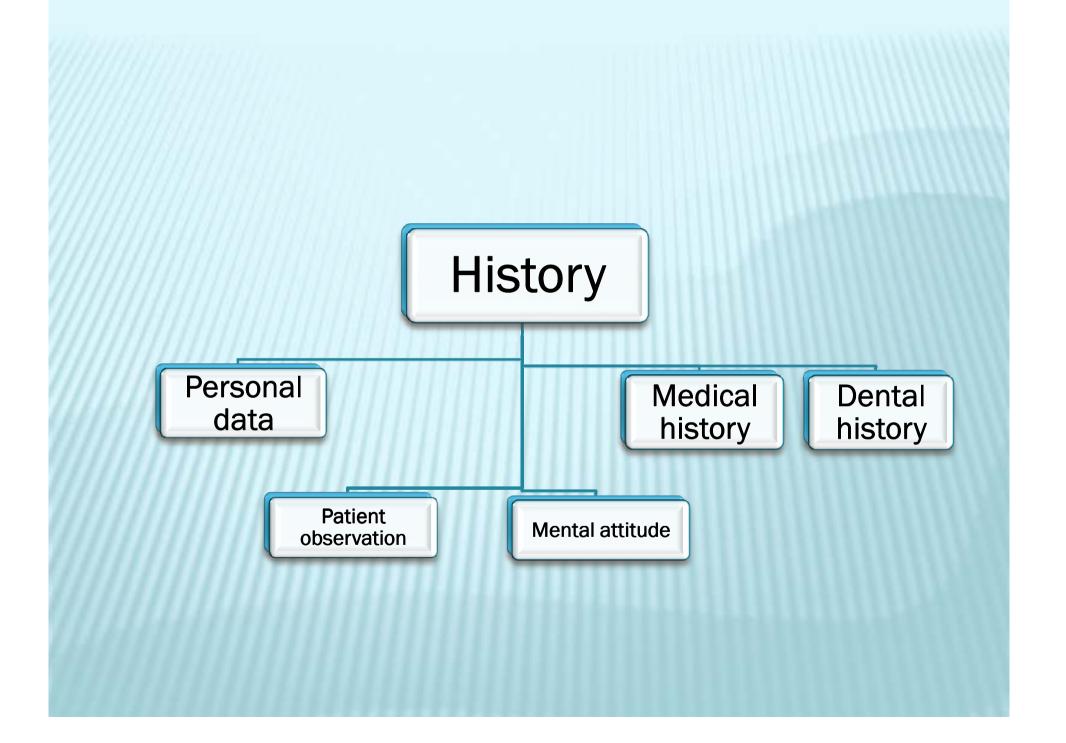
OBJECTIVES

- **×** Evaluate condition of the oral tissues
- * General health assessment
- Evaluate psychological condition
- Detect any treatment difficulties
- * Estimate cost and time



Diagnosis and treatment plan

HISTORY



Personal data

* Name, address and telephone number



Positive identification and communication



* Age

- + Geriatric dentistry is concerned with multiple changes occurred with age that could affect treatment (e.g. Prosthetic treatment)
- + Younger patient is more concerned with esthetics
- + Age of the patient influenced teeth selection.





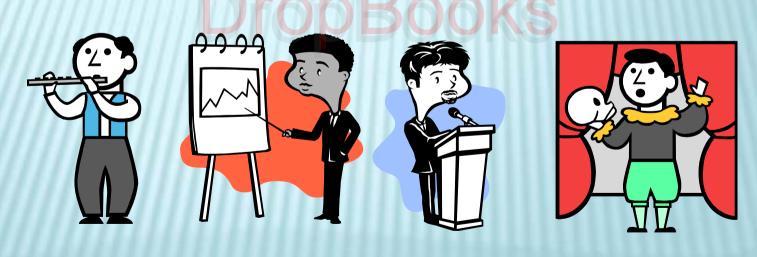


* Sex

- + Males are more interested with function, they are also more busy.
- + Females are more interested with esthetics
- + Menopause is usually associated with burning mouth.

× Occupation

+ Whenever phonetics and maximum retention needed, some professions may require special concern during complete denture construction



- * Reason for seeking new denture
 - + At this stage the patient should be asked about the reason for demanding denture
 - Damage of the denture
 - × Esthetic of the denture
 - x Loosing proper function
 - × Pain during function



PATIENT OBSERVATION

- * General appearance
 - + It is a good indicator for esthetic concern
 - + General development of facial muscles
- **x** Complexion
 - Hair and eye color helpful in teeth selection
- * Pallar
 - Indication for systemic disease or lack of nourishment
- * Ruddy
 - * Polycyathemia, neoplasm chronic alcoholism

PATIENT OBSERVATION

- * Bronzy skin
 - + addison's disease or radiotherapy
- **x** Cyanosis
 - + Heart or lung disease
- **×** Lemon yellow
 - + Jaundice
- × Voice
 - + Hypernasality ------ soft palate problems

PATIENT OBSERVATION

- Breathing pattern
- Bad oral smell (halitosis)
 - * Oral hygiene DrobBooks
 - Soft tissue lesion
 - Heavy smoking
 - Highly flavored diet
 - Respiratory disease
 - GIT problems

philosophic Exacting Mental attitude Hysterical Indifferent • Hysterical Patients (Panic-stricken)

Unstable- Excitable — Peor prognosis

DropBooks

Indifferent Patients (uncaring, cool)

Uninterested- depressed- no cooperation-unfavorable prognosis

Philosophical Patients (Truth-seeking

Best mental attitude-Definite- incentivethoughtful - Learns to adjust rapidly- Clear-cut kind-caring — Geed-prognosis

• Exacting Patients (Demanding)

Good as philosophical-needs great carb, effort &explanations-tough Good prognosis

Dental historys

DENTAL HISTORY

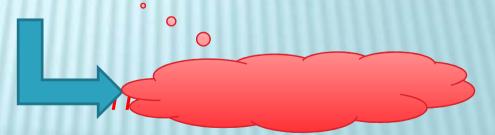
* History of difficult extraction



* Reasons of teeth loss



* Retained anteriors for long time



DENTAL HISTORY

- **×** Denture history
 - + Denture servicing time
 - + Number of denture sets patient receive
 - + Success of previous dentures
 - + Patient attitude toward denture
 - + Existing denture problem
 - * Over-extension
 - * Midline fracture
 - * Vertical dimension reduction





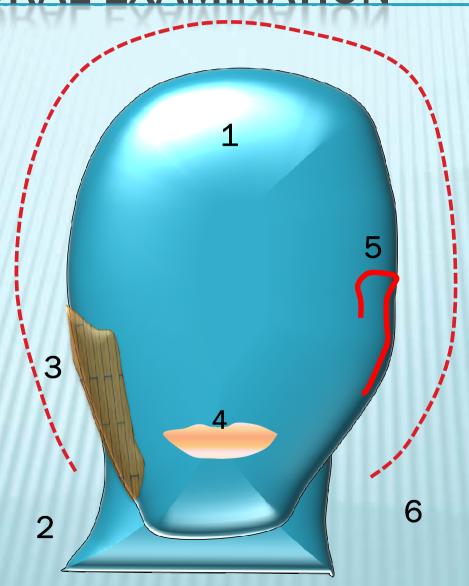
Medical history

MEDICAL HISTORY

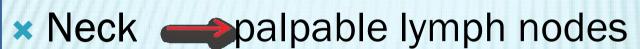
Some dangerous transmissible diseases	Some systemic diseases might affect the outline of treatment	Some other transmissible diseases but not dangerous	Some drugs might affect the outline of treatment
1) Jaundice 2) AIDS 3) TB	 Cardiac patients Diabetes Osteoporosis Osteoarthritis Hormonal disorder Neurologic disorder Skin disease 	1) Influenza 2) Rhinitis 3) Bronchitis	 Anticoagulants Dilantin Na Meduretics Antihypertensive drugs Endocrine therapy Saliva inhibiting drugs

Diagnosis and treatment plan CLINICAL EXAMINATION

• Extra-oral examination Intra-oral examination



* Head detect asymmetry

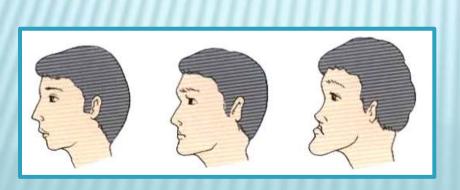




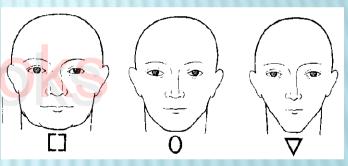
DropBooks

- × Lip
 - +Lip thickness
 - +Lip length
 - +Lip fullness
 - +Microstomia
 - +Tight lip

- * Temporo mandibular joint
- * Face
 - + Outline (ovoid, rectangular, tapered)
 - + Profile (class I,II, III)
 - + Angular chilitis

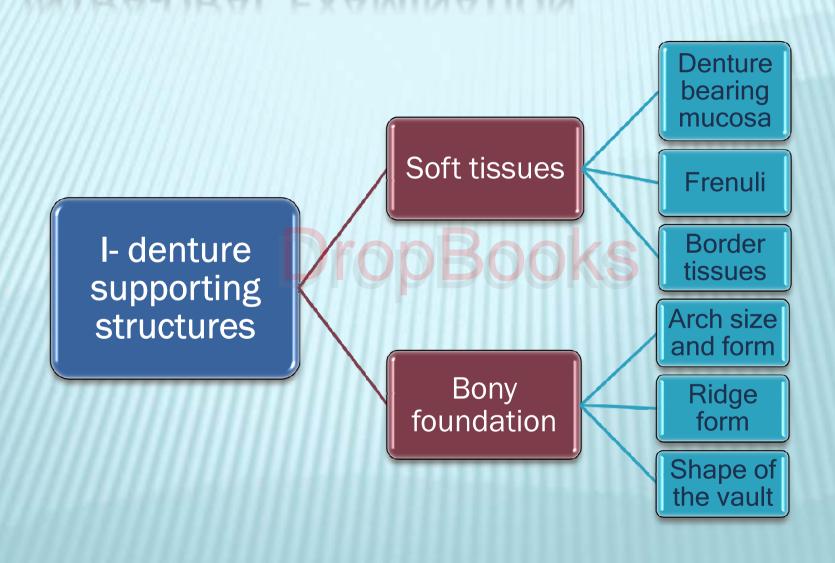












Soft Tissues

A- Denture Bearing Mucosa

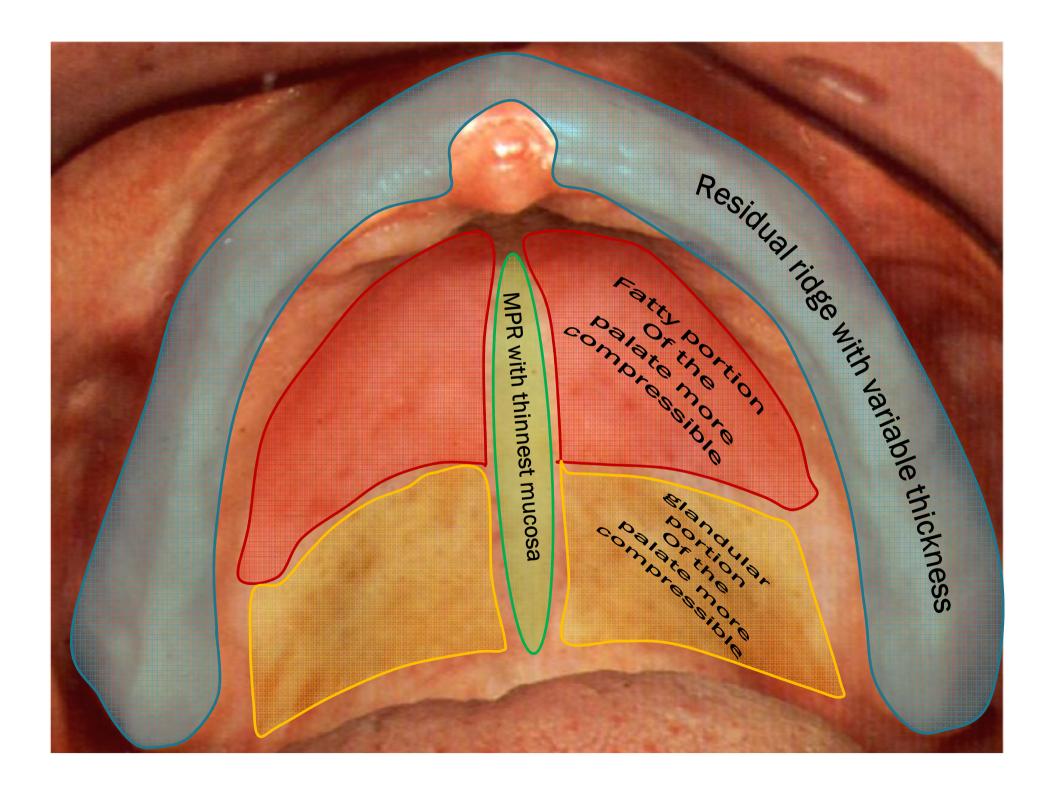
Ideal Mucosa

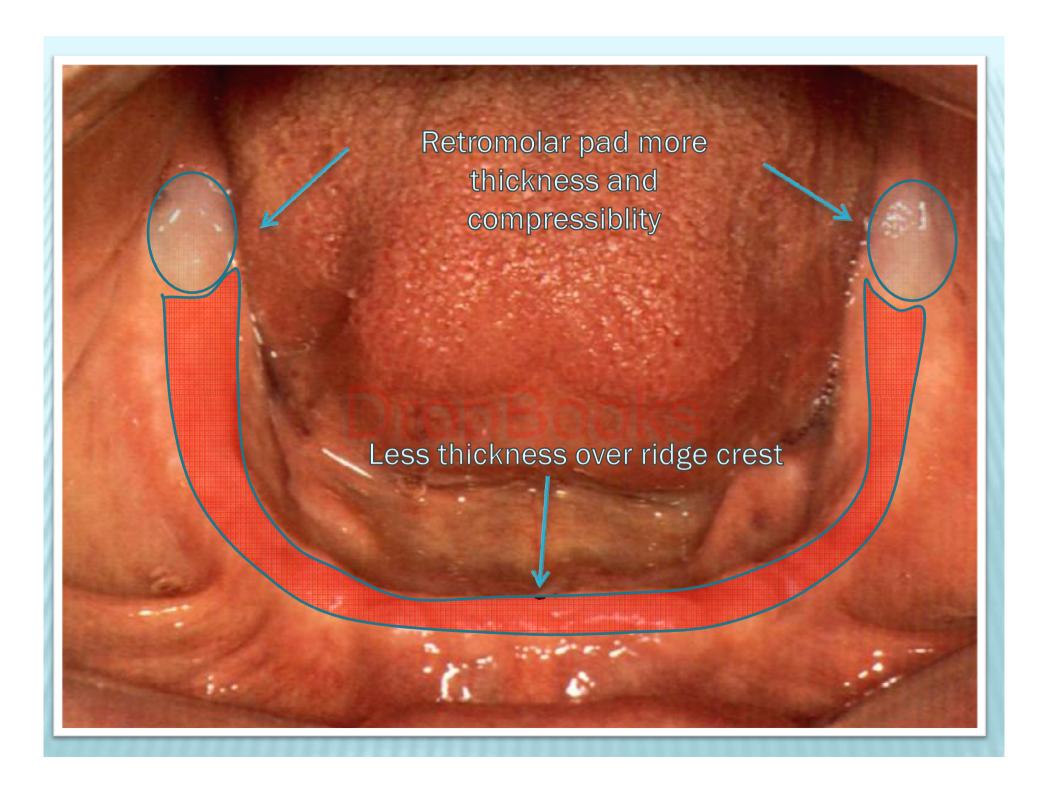
- **✓ Firmly Bound To Bone**
- **✓ Slightly Compressible**
- **✓Of Even Thickness**



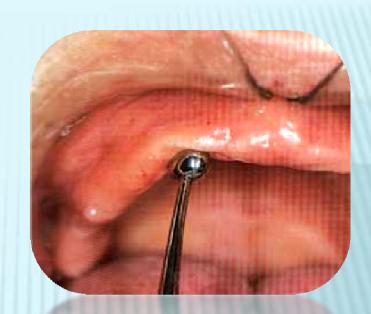
Enhance stability and retention of the denture and act as a cushion for masticatory forces







During palpation healthy mucosa should revealed 1-2 mm thickness displaceable



- Abused tissues in the form of flabby tissues may be localized or represent all residual ridge.
- That may require conservative program or surgical intervention





B-BORDER TISSUES

Slightly displaceable tissue needed for proper retention.

* Detect tissue hypertrophy at the sulcus (epulis fissuratum).

* Avoid over-extension at area of root of zygoma

C- FRENULI

* Broad frenum near crest of the ridge may require (frenectomy)?



D- ABNORMAL SOFT TISSUES

* III fitting denture may cause chronic irritation



Papillary hyperplasia



Epulis fissuratum



Flabby ridge

ABNORMAL SOFT TISSUE

- Abnormal white lesion hard and fissured
- Mainly at the margin of the tongue and anterior part of the floor of the mouth.

Squamous cell carcinoma





ABNORMAL SOFT TISSUES

***** When body defense compromised

- + Denture irritation
- + Xerostomia
- + Physical debilitation
- + Antibiotic therapy
- + Chemotherapy
- + Radiotherapy
- + Immuno supressive drugs



candidiasis

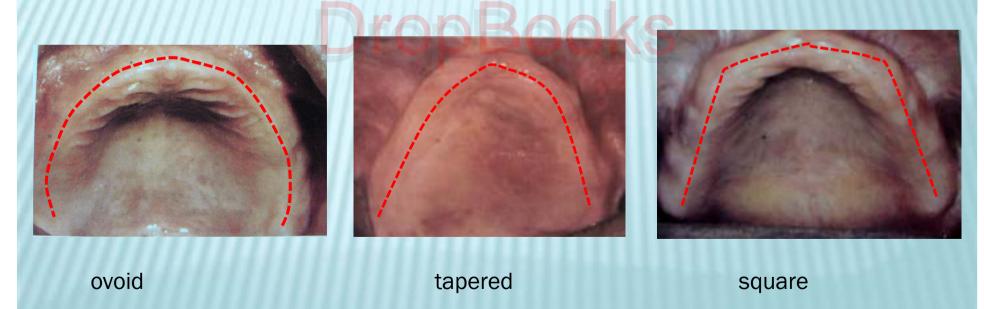




Bony Foundation

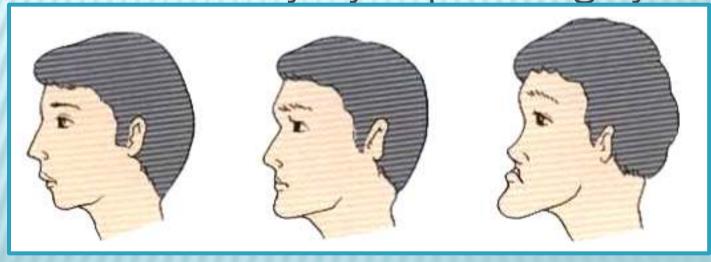
A- ARCH SIZE & FORM

- ★ Increase in Arch size → more surface area
 → more support, retention and stability.
- * Arch form classified into 3 categories



B-RIDGE RELATIONSHIP

- * The relation between maxilla and mandible is considerably affect prognosis, arrangement of teeth will need special consideration
- Sever disharmony my require surgery



Class I class II class III

C- RIDGE FORM

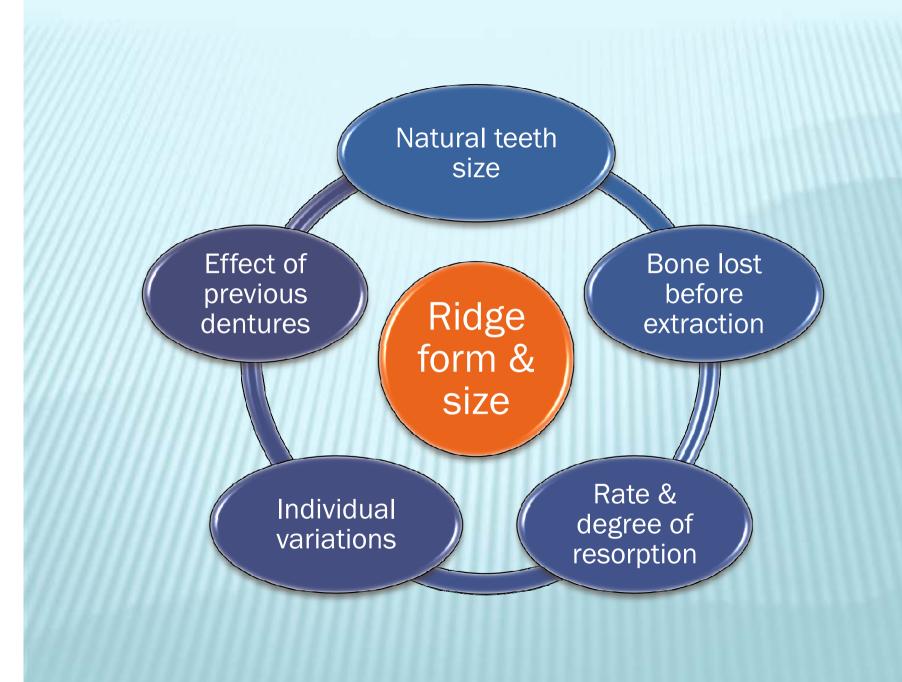
- * U-shaped ridge form is the most favorable as it provide maximum support and stability
- * Knife edge ridge is less favorable and require special impression technique
- * flat reverely rerorbed ridger lack stability and require special management
- Ridges with multiple undercuts require relief or surgical removal







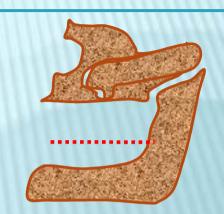


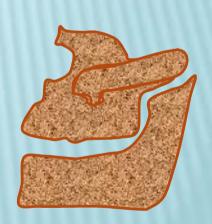


D- INTER-RIDGE SPACE

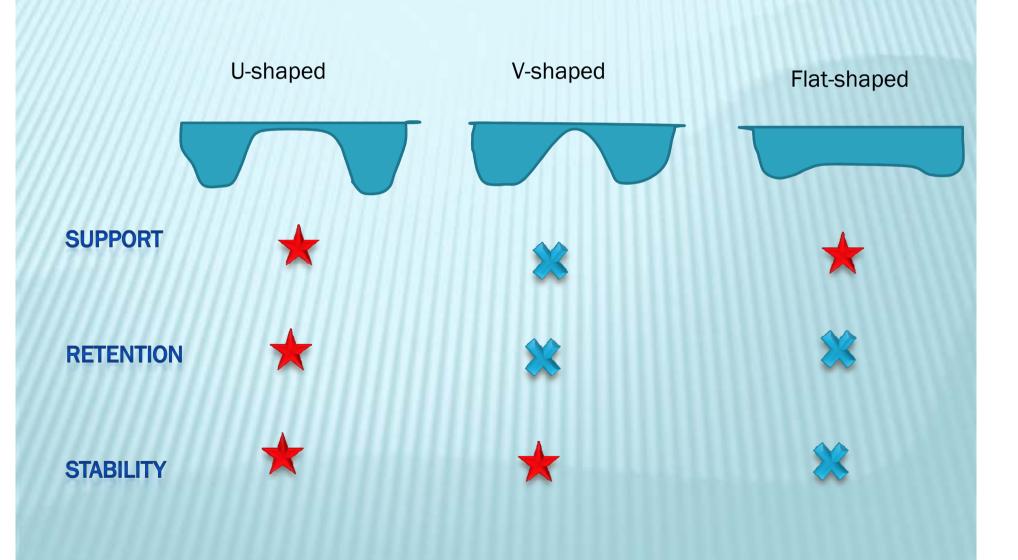
- Increased inter-ridge space has poor prognosis due to leverage
 lack stability so occlusal plane more close to the lower arch
- Inadequate inter-ridge space form some difficulty especially during teeth arrangement

acrylic teeth





E- SHAPE OF THE VAULT



Tongue & Floor Of The Mouth

TONGUE AND FLOOR OF THE MOUTH

- * Broad thick tongue extend to cover the floor of the mouth and moved with normal speed during function.
- * Tongue size
 - + Small narrow tongue easier prosthetic procedures but impaired peripheral seal and retention
 - + Large thick tongue difficulty during prosthetic procedures but better peripheral seal

× Tongue position

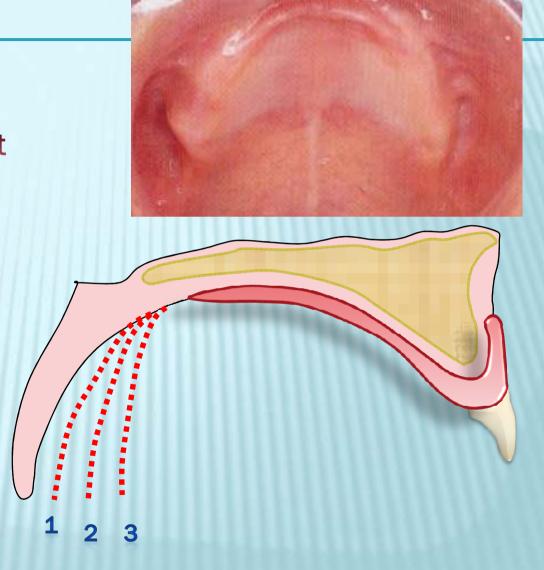
- + Retruded tongue position loosing peripheral seal
- + Low tongue position in relation to the ridge crest also impair retention
- * Tongue movement
 - + Fast or slow tongue affect the lingual flange as it affect border molding
- Floor of the mouth should also inspected for movement position and areas of rigidity.

SOFT PALATE

CLASS 1: slight curvature, broad post dam and better retention

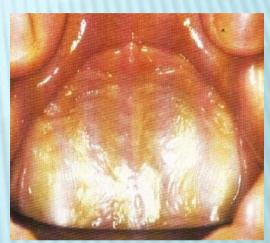
CLASS 2: medium curvature, moderate post dam and moderate retention

CLASS 3: abruptly curved so narrow post dam and poor retention



SALIVA

- Serous saliva with normal amount is the best medium for denture retention
- Quantity and quality of saliva is inspected
- Xerostomia affect retention with soft tissue stick to the denture
- Thick ropy saliva decrease retention, affect impressions and induce gag.
- * Thin watery saliva affect seal and so decrease retention



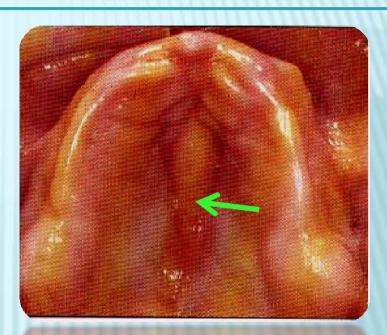


× Tori

+ Torus palatinus
In the midline of the palate

+ Torus mandibularis
In the lingual side of the premolar area

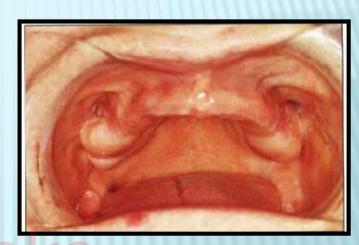
They require releif or surgical removal

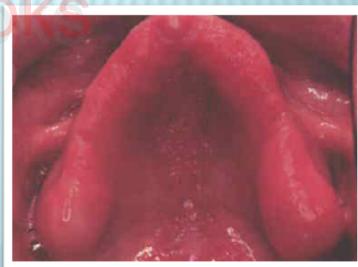




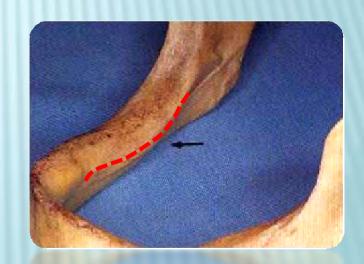
* Undercuts

+ Multiple undercuts interfere with denture seating and removal so they may require relief or surgically removed





- * Irregularities of the alveolar ridge
 - + Sharp bony specules or hard nodules palpated may either relieved or corrected surgically.
- Mylohyoid ridges
 - + At lingual side of the 2nd &3rd molar teeth. if they are sharp they may require relief

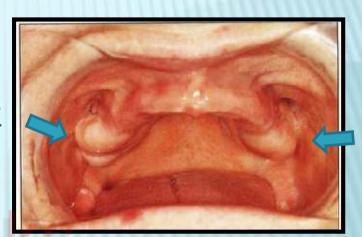


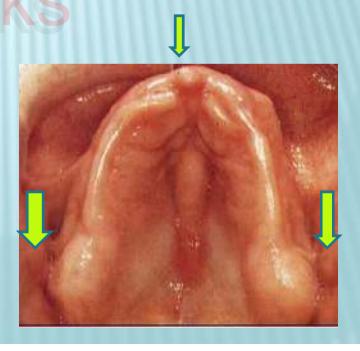
- * Sinuses and fistulas
 - + Any infected area from remaining roots or bone chips should be noted for further radiographic examination.
- * Painful areas 100B00K\$
 - + Palpation of the mucous membrane may show some painful areas which should be treated before prosthetic treatment

Gag reflex

- + This is a normal defense mechanism evoked by vagus nerve which is triggered at certain areas in the oral cavity.
- + Certain measures could be taken to avoid gagging during prosthetic treatment
- + Some patients may have gagging of psychological or systemic factor.

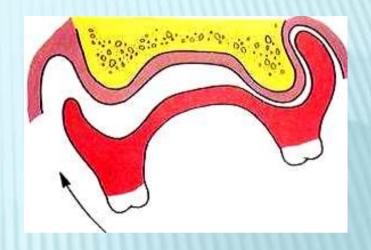
- Maxillary tuberosity
 - + If large undercuts are present bilaterally, one of them should be surgically eliminated.
 - + If large bilateral undercuts with another one labially, the two opposing undercuts in the tuberosity areas removed

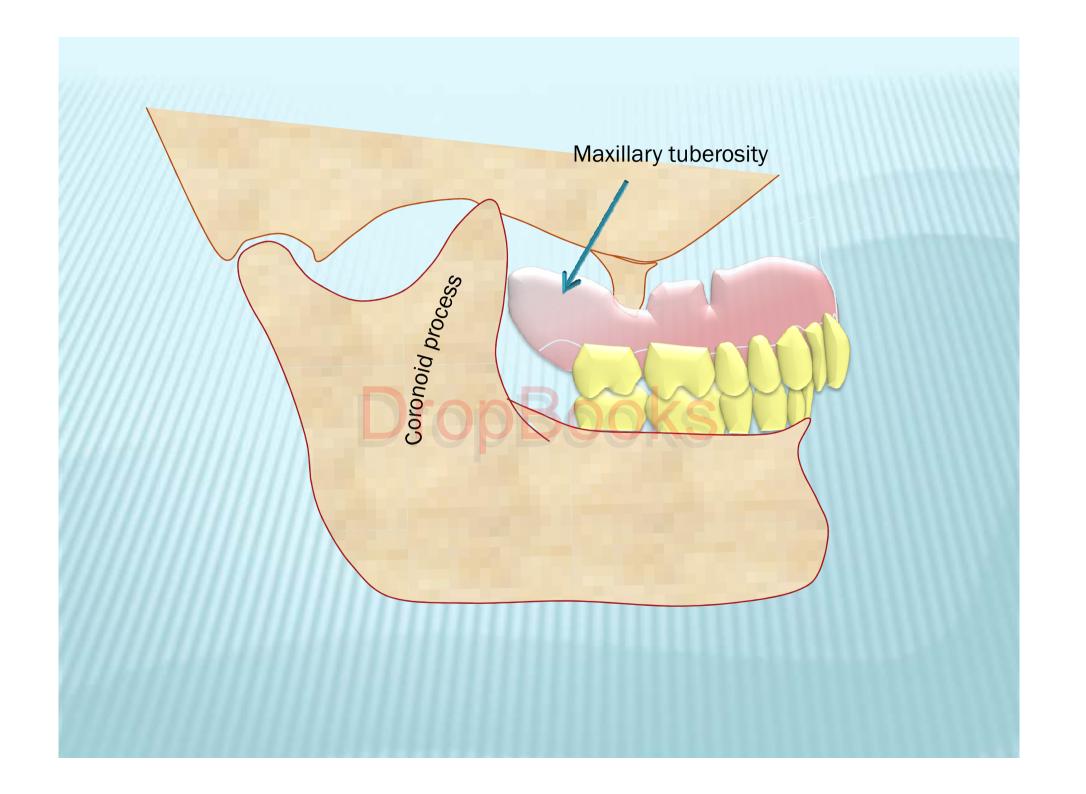




Maxillary tuberosity

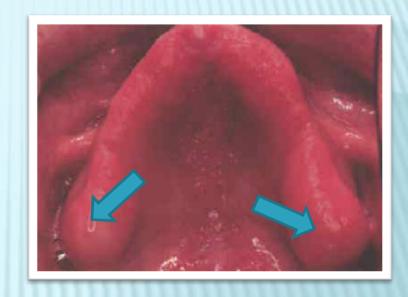
- + A unilateral undercut can be avoided by inserting and removing the denture in a rotating path. This enhances the denture retention
- + A large unilateral tuberosity may induce resistance the coronoid process so surgically corrected.





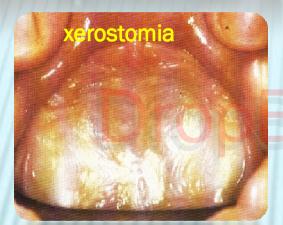
Maxillary tuberosity

- + It may also occlude with the retromolar pad obliterating the interridge space.
- + The maxillary tuberosity may sometimes be covered with large pendulous fibrous tissues which may need surgical correction







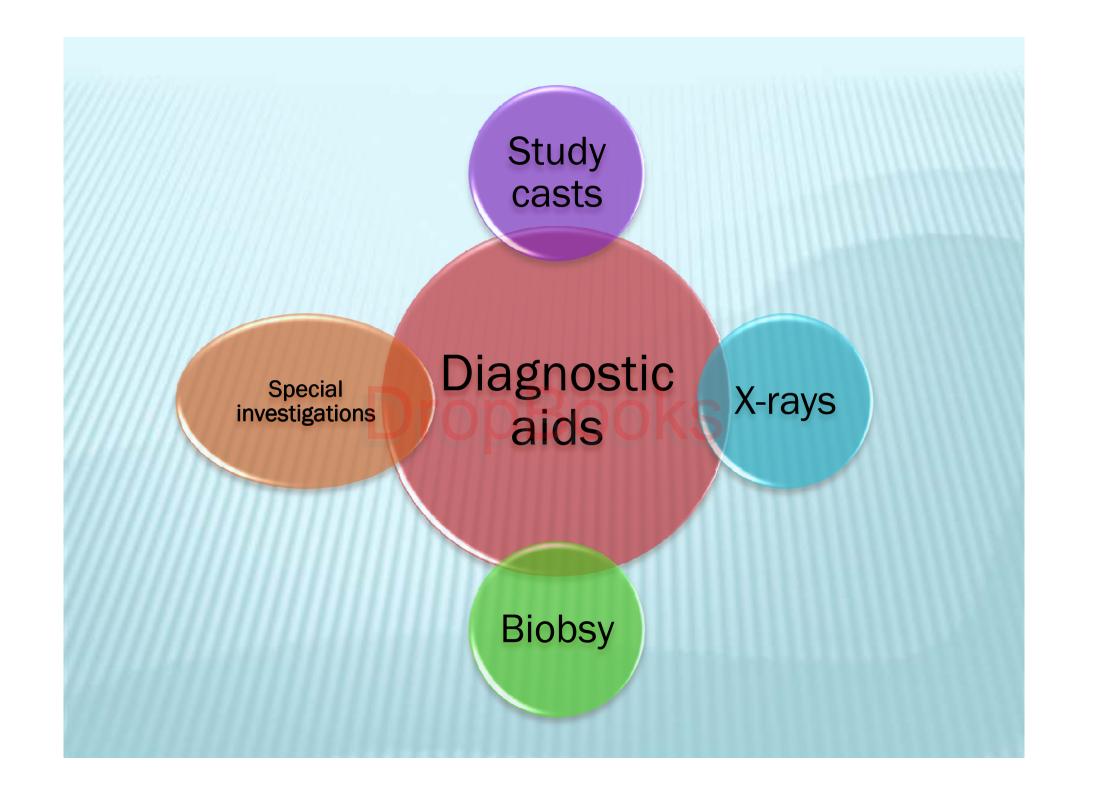








Diagnosis and treatment plan **DIAGNOSTIC AIDS**



STUDY CASTS

- They show size, shape of the denture bearing tissues
- Sulcus depth
- * Position and amount of undercut
- * Artificial teeth selection
- Inter-arch space on mounted casts

X-RAY

- Detect retained roots or impacted tooth
- Inspect bone quality
- Residual infection or cysts
- Bony spicules
- The mucosal thickness along the crest of the residual ridge
- TMJ study through lateral view





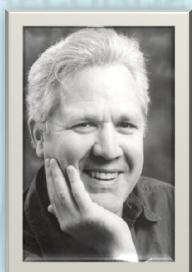
BIOPSY & SPECIAL INVESTIGATIONS

- It is used to confirm diagnosis of suspected lesions
- * Types
 - + Excisional
 - + Incisional
 - + Smear or swab
 - + Aspiration
- Special investigations such as C.T or ultrasonography



PRE-EXTRACTION RECORDS

- Diagnostic Casts
- Photographs
- **□** Extracted Teeth
- ☐ X- Rays













TREATMENT PLAN

* All data collected during diagnosis and investigations are studied and analyzed to select the proper mouth preparation and preprosthetic measure then obtain the suitable sequence of treatment.

